

Setting up your TPS 800 Series Total Station

Most of this guide will be relevant for the TPS300, 400 and 700 series also but some functions may vary slightly.

Step	Action	Screen Display
1	Switch instrument on	
2	<p>The level screen may start automatically, if not press FNC followed by F1.</p> <p>The laser plummet will turn on automatically and the beam intensity can be adjusted via the up / down key</p> <p>Press F4-OK to continue</p>	
3	<p>Enter a program to set your instrument up. Press MENU, F1-Programs</p> <p>Choose either Surveying, Setting Out or other program you wish to use.</p> <p>To perform a free station or resection please see additional guide – Resection TPS400 800.</p> <p>For example select F1-SURVEYING</p>	
4	<p>Select F1-Set Job to set the job name where you will record data.</p> <p>Use the < > key to scroll existing jobs or select F1-NEW to enter a new job name.</p> <p>Press F4-OK to accept the job.</p>	
5	<p>Select F2-Set Station to define the station position</p> <p>If the point already exists in the memory, input the Station ID (i.e. STN1) and select F1-FIND. The point should be found, select F4-OK to accept.</p> <p>If the point is not in the memory you can F2-LIST to view all points or use F3-NEW to enter the station coordinates manually.</p> <p>F4-OK confirms saving the point to the memory</p> <p>Input the Instrument height and then F4-OK to continue.</p>	

<p>6</p> <p>6a</p> <p>6b</p>	<p>Select F3 Set Orientation to sight to a backsight target.</p> <p>Choose F1 if you wish to enter and set a bearing only, then go to step 6a.</p> <p>Choose F2 if you are sighting to another coordinated point, go to step 6b.</p> <p>If you selected F1-Manual Angle Setting - input the backsight bearing (Brg), and if known, the target reflector height (hr) and point ID.</p> <p>If measuring to a prism select F1-ALL to take a measurement and record or F3-SET if no distance is required. F2-EDM changes the EDM settings and F4-HZ=0 sets the bearing to zero.</p> <p>If you selected F2-Coordinates – enter the target reflector height (hr) first. Use F1-LIST to list all points, F2-NEW to enter a new point into the memory or enter the backsight point ID (BS) to search the memory, select F4 OK if found or F3-NEW to enter a new point manually.</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">ORIENTATION</p> <p>F1 Manual Angle Setting F2 Coordinates</p> <p style="text-align: center;">F1 F2</p> <hr/> <p style="text-align: center;">MANUAL ANGLE SETTING</p> <p>Brg : 12°34'56" hr : 1.500 m</p> <p>Point: 1 Aim target and press ALL/REC</p> <p style="text-align: center;">ALL EDM REC HZ=0</p> <hr/> <p style="text-align: center;">ORIENTATION WITH COORDINATES Enter BS PtID</p> <p>BS: ----- hr: 1.500 m</p> <p style="text-align: center;">LIST ENH</p> </div>
<p>7</p>	<p>If measuring to a prism select F1-ALL to take a measurement, record and finish. Select F2-DIST if you wish to view the residuals (additional info by pressing page). Press F3-REC to record and finish.</p> <p>Change EDM settings using F4-EDM</p> <p>Choose whether to take additional measurements, F1-YES or F4-NO.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Sight target point! 1/</p> <p>BS : 22 hr : 1.500 m Hz : 0°00'00" ▲ : 0.000 m ▲ : 10.004 m</p> <p style="text-align: right;">I</p> <p style="text-align: center;">ALL DIST REC EDM</p> <p style="text-align: center;">Orientation Set!</p> </div>
<p>8</p>	<p>Select F4-Start to begin the program and begin measurements.</p> <p>See additional guide for surveying or setting out – Surveying and setting out TPS400 800</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: right;">SURVEYING 1/3 JpMini</p> <p>PtID : A1 hr : 1.500 m Code : ----- Hz : 0°00'00" V : 0°00'00" ▲ : ----- m</p> <p style="text-align: right;">I</p> <p style="text-align: center;">ALL DIST REC ↓</p> </div>